

Serial No. 10/530,197
Amendment Dated: July 24, 2006
Reply to Office Action Mailed: March 24, 2006
Attorney Docket No. 101709.56096US

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Currently Amended) A method of controlling the operation of a missile launcher which fires free fall ballistics missiles, the method comprising the steps of:

- a) firing a missile from the missile launcher;
- b) tracking the trajectory of the fired missile;
- c) calculating a predicted point of impact of the missile immediately after it reaches its trajectory apogee;
- d) feeding back the predicted point of impact to the missile launcher before the fired missile impacts;
- e) applying a correction prior to firing a subsequent missile; and
- f) repeating steps a) to e) until [[the]] a missile impacts a chosen target.

Claim 2. (Original) A method according to claim 1, wherein step d) comprises feeding back the predicted range of the missile.

Serial No. 10/530,197
Amendment Dated: July 24, 2006
Reply to Office Action Mailed: March 24, 2006
Attorney Docket No. 101709.56096US

Claim 3. (Original) A control system for a free fall ballistics missile fired from a missile launcher, the control system including:-

tracking means for tracking the trajectory of a missile fired from the missile launcher;

calculation means for calculating a predicted point of impact of the missile, the calculation means being operable immediately after the missile reaches its trajectory apogee; and

feedback means for feeding back the predicted point of impact to the missile launcher so that a correction can be applied before the fired missile makes impact prior to the launch of subsequent missile.

Claim 4. (Original) A control system according to claim 3, wherein the calculation means comprises a processor connected to receive data from the tracking means and to provide data relating to the predicted point of impact in the form of range information.

Claim 5. (Original) A control system according to claim 4, wherein the processor includes the feedback means.

Claim 6. (Previously Presented) A control system according to claim 3, wherein the tracking means comprises a tracking radar system.

Serial No. 10/530,197
Amendment Dated: July 24, 2006
Reply to Office Action Mailed: March 24, 2006
Attorney Docket No. 101709.56096US

Claim 7. (Original) A control system according to claim 6, wherein the tracking radar system recognises the missile as it is fired from the missile launcher.

Claims 8. - 10. (Cancelled)

Claim 11. (Previously Presented) A control system according to claim 4, wherein the tracking means comprises a tracking radar system.

Claim 12. (Previously Presented) A control system according to claim 11, wherein the tracking radar system recognizes the missile as it is fired from the missile launcher.

Claim 13. (Previously Presented) A control system according to claim 5, wherein the tracking means comprises a tracking radar system.

Claim 14. (Previously Presented) A control system according to claim 13, wherein the tracking radar system recognizes the missile as it is fired from the missile launcher.

Claim 15. (Previously Presented) A targeting system including a control system according to claim 3.

Claim 16. (Previously Presented) A targeting system including a control system according to claim 7.

Claim 17. (Previously Presented) A targeting system including a control system according to claim 12.

Serial No. 10/530,197

Amendment Dated: July 24, 2006

Reply to Office Action Mailed: March 24, 2006

Attorney Docket No. 101709.56096US

Claim 18. (Previously Presented) A targeting system including a control system according to claim 14.